MILLWORK 360

THE DEGREE OF SUPERIOR QUALITY

IMPACT 360 SERIES

WOOD GLAZED OR OPAQUE DOUBLE DOOR w/ TRANSOM

INSWING/OUTSWING "IMPACT"

GENERAL NOTES:

1. This product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. Outswing configurations meet water infiltration requirements for "HVHZ".
7. Inswing configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.

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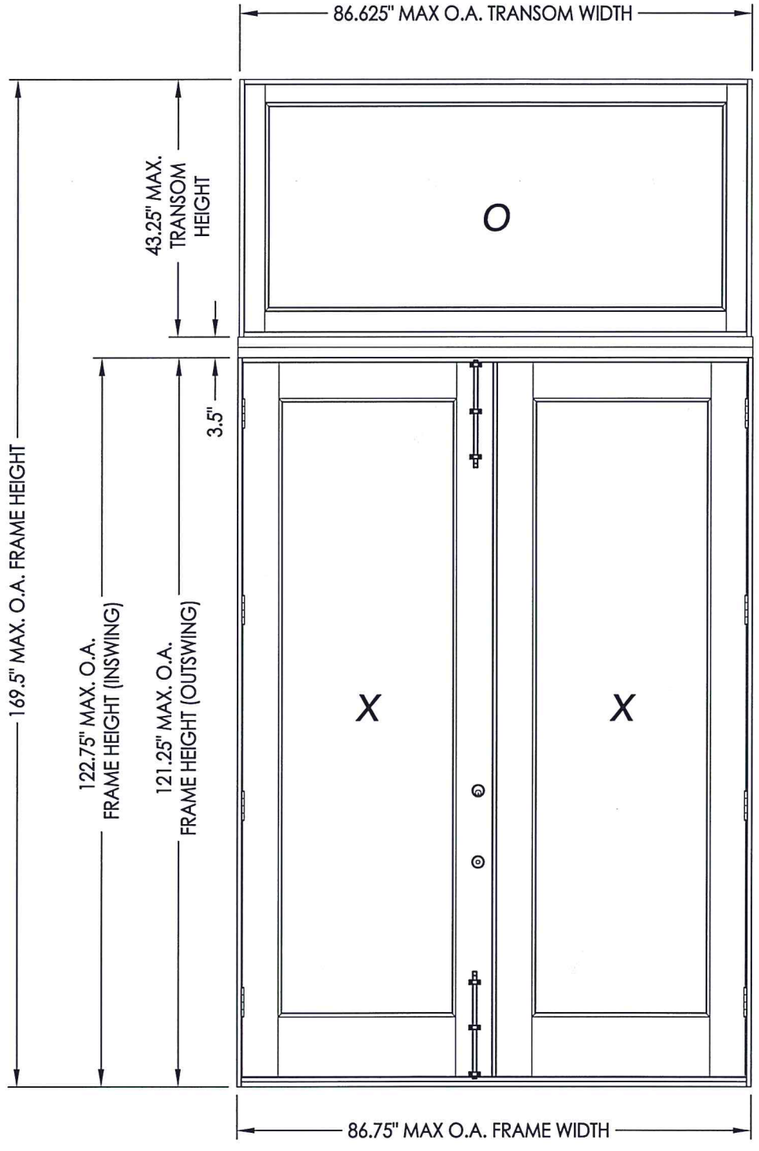
12	Bill of Materials & Components



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
O / XX	+60.0	-70.0	+60.0	-60.0

STATE OF FLORIDA PROFESSIONAL ENGINEER
LYNDON F. SCHMIDT LICENSE No. 43409
4-11-17

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

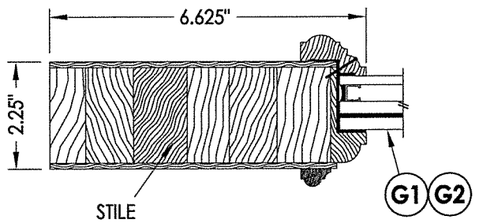
PRODUCT: MILLWORK 360 WOOD DOOR

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

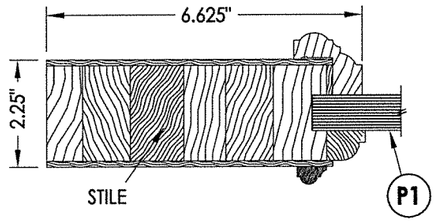
NO.	DATE	BY

REVISIONS

DATE: 4/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 1 OF 12



1/2 **HORIZONTAL CROSS SECTION**



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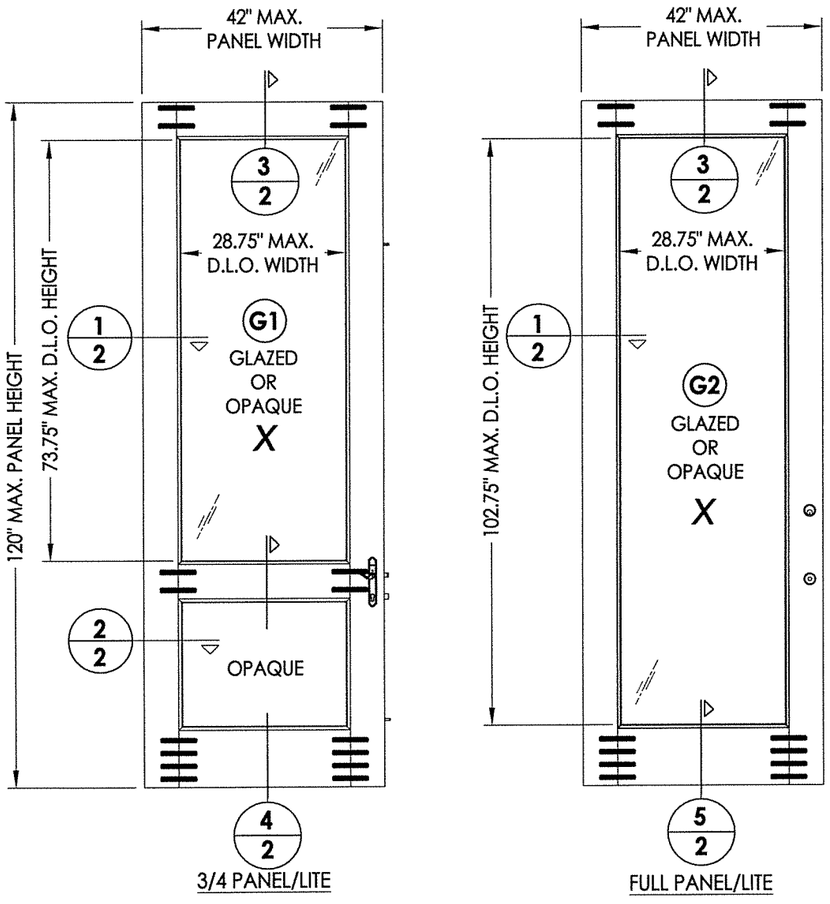
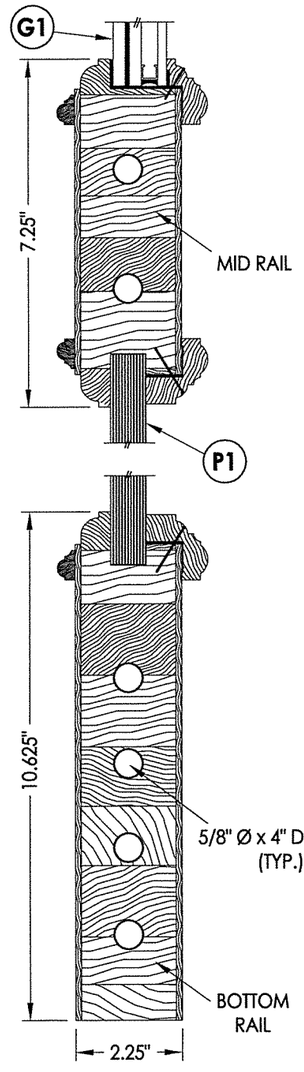
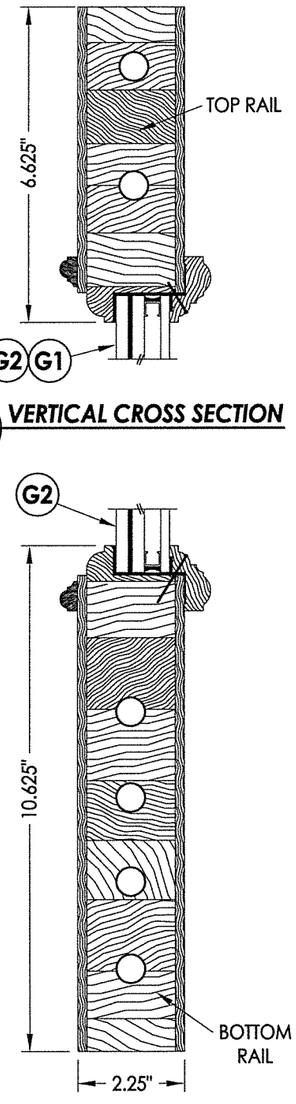


40 **WOOD DOOR PANEL (3'-6")**
Glazed or Opaque

WOOD DOOR COMPONENTS:
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)
VENEER/EDGES: CYPRESS (G = 0.42)
NOTE: VENEER/EDGE MAY INCLUDE OAK, CHERRY, WALNUT OR OTHER OPTIONAL HARDWOOD SPECIES w/ G >= 0.42.



4/2 **VERTICAL CROSS SECTION**



5/2 **VERTICAL CROSS SECTION**

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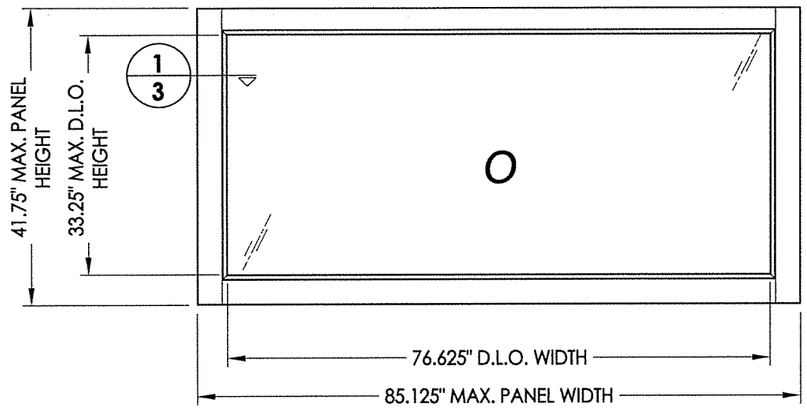
PRODUCT: MILLWORK 360 WOOD DOOR

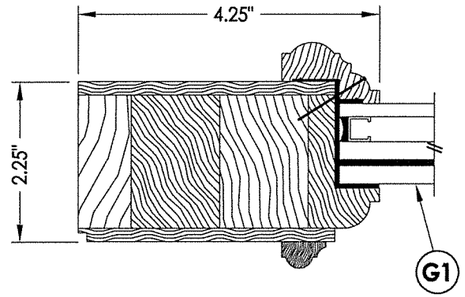
PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	REVISIONS	BY

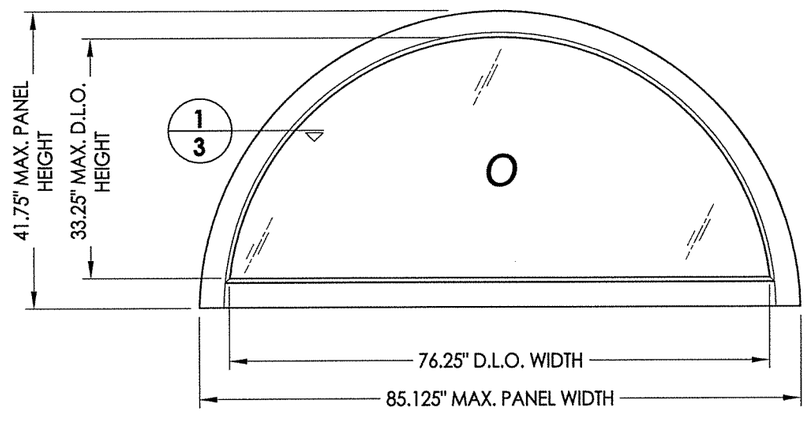
DATE: 3/27/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 2 OF 12



70 **WOOD TRANSOM PANEL**



1/3 **HORIZONTAL CROSS SECTION**



70 **WOOD TRANSOM PANEL**

NOTE:
1. ALL FRAME CORNERS SECURED WITH (1) 1/4" X 6" LAG SCREW.

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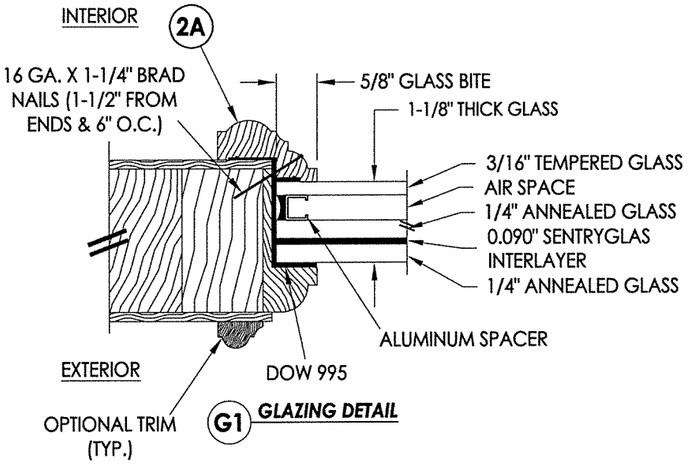
PRODUCT: MILLWORK 360 WOOD DOOR

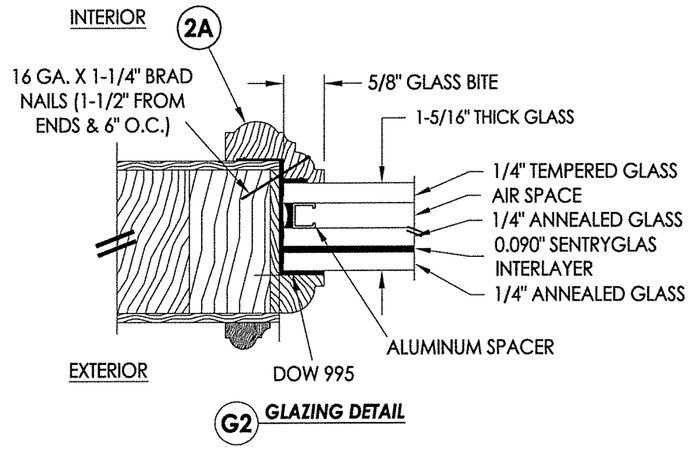
PART OR ASSEMBLY: TRANSOM DETAILS

NO.	DATE	REVISIONS	BY

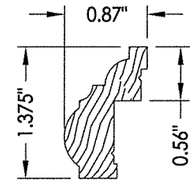
DATE: 2/14/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 3 OF 12



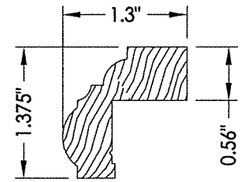
G1 **GLAZING DETAIL**



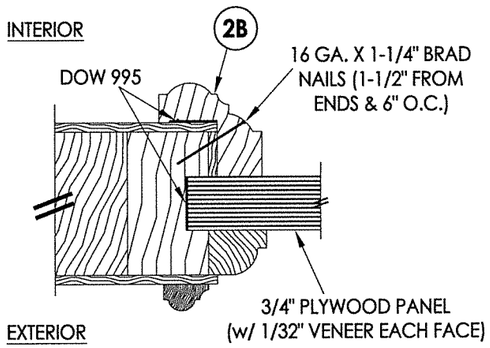
G2 **GLAZING DETAIL**



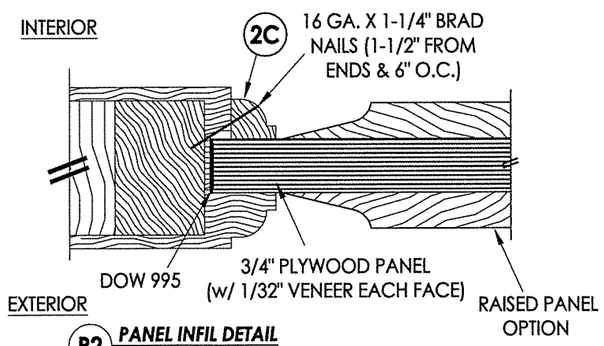
2A **GLAZING BEAD**



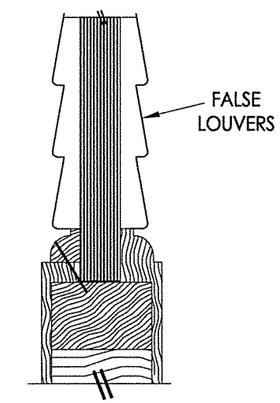
2B **GLAZING BEAD**



P1 **PANEL INFIL DETAIL**



P2 **PANEL INFIL DETAIL**



FALSE LOUVER OPTION

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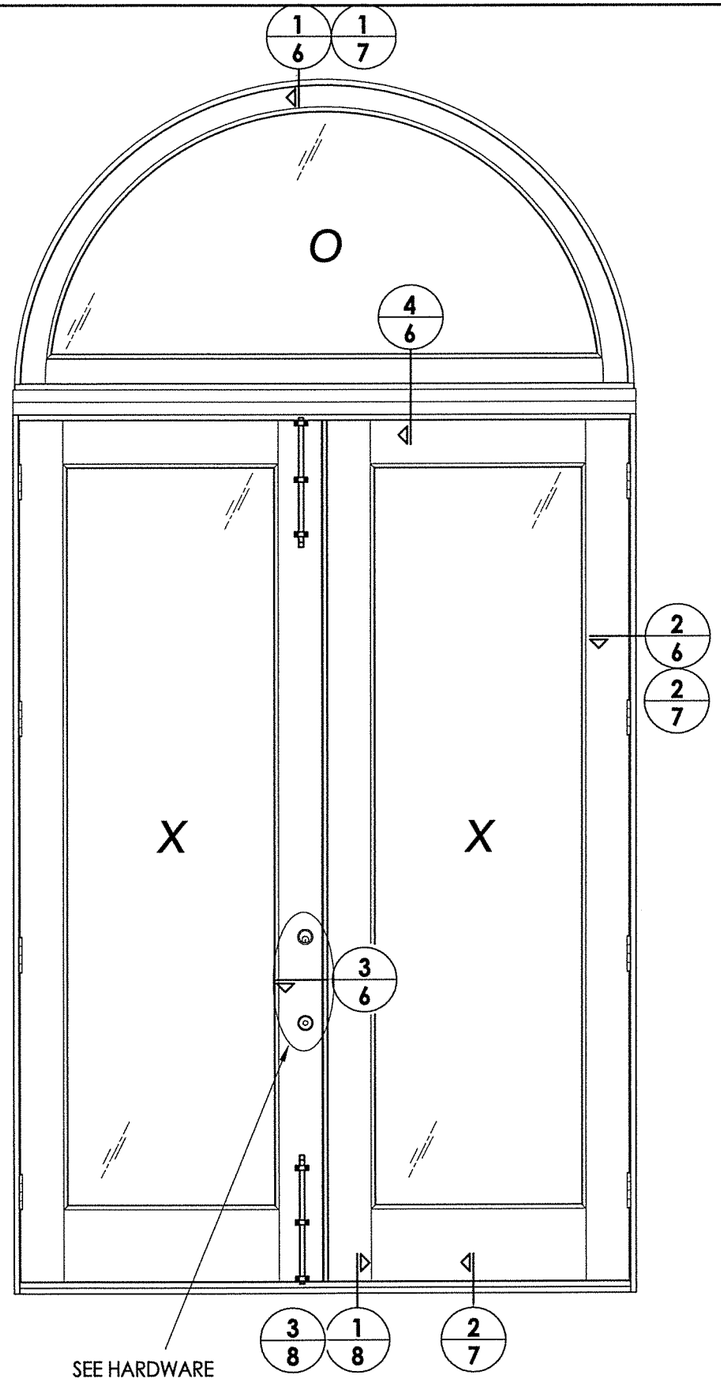
FBPE C.A. No. 9813

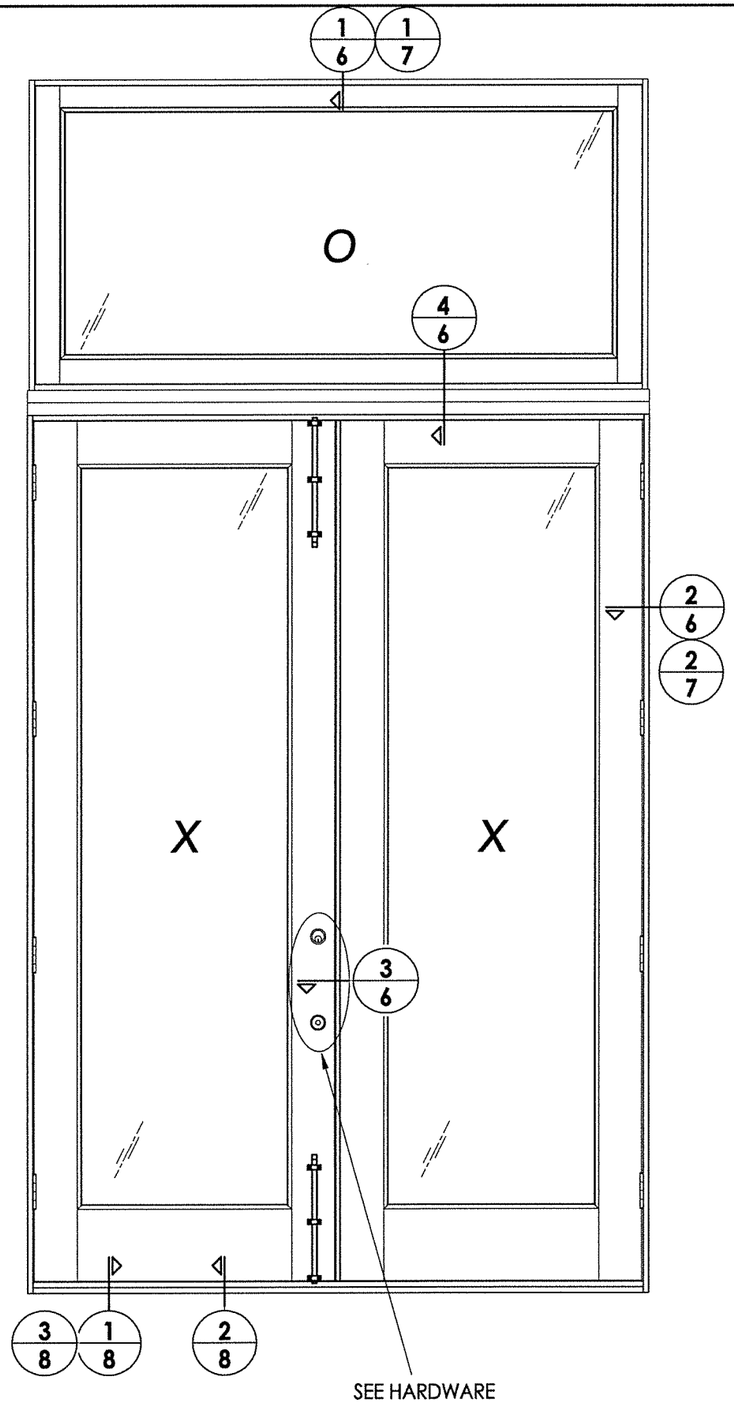
PRODUCT: *MILLWORK 360 WOOD DOOR*

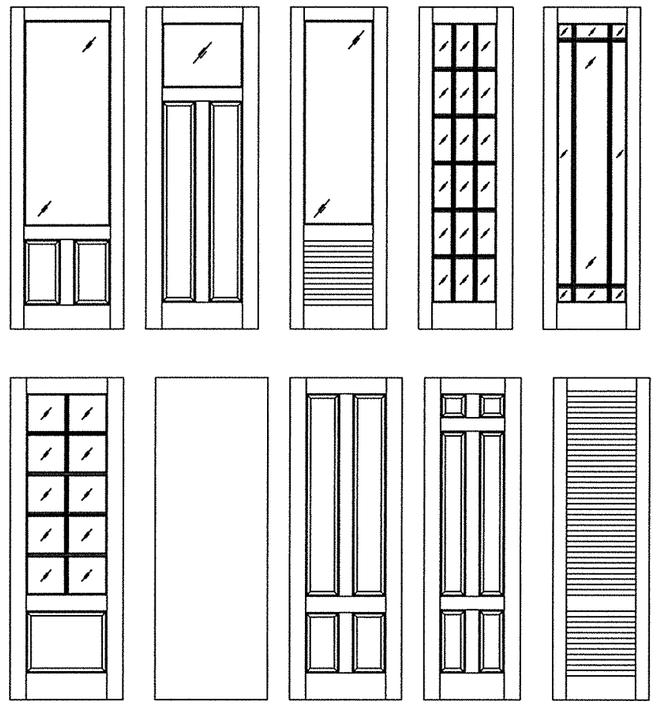
PART OR ASSEMBLY: *GLAZING & PANEL INFIL DETAILS*

NO.	DATE	REVISIONS	BY

DATE: 4/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 4 OF 12







Millwork 360 Door Panel Options

Panel options shown are for illustration and are representative only.
Surface applied muntins are used for simulated divided lites shown.

HARDWARE TABLE	
MANUFACTURER	**MODEL**
KWIKSET	**KNOB: SIGNATURE SERIES** **DEADBOLT: SIGNATURE SERIES (980)**

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FBPE C.A. No. 9813

PRODUCT: MILLWORK 360 WOOD DOOR

PART OR ASSEMBLY: ELEVATIONS

NO.	DATE	BY	REVISIONS

DATE: 04/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 5 OF 12

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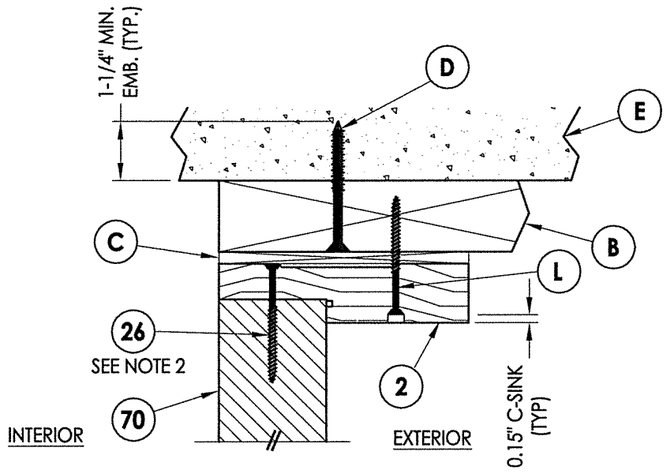
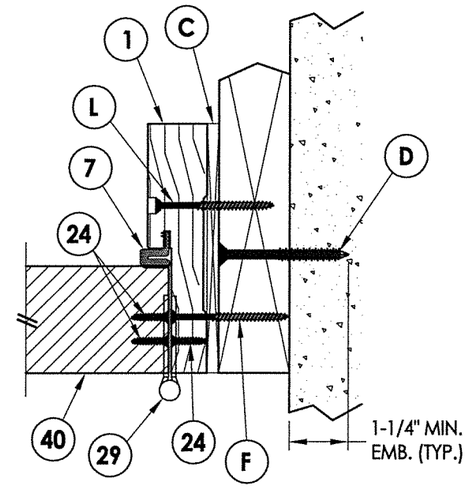
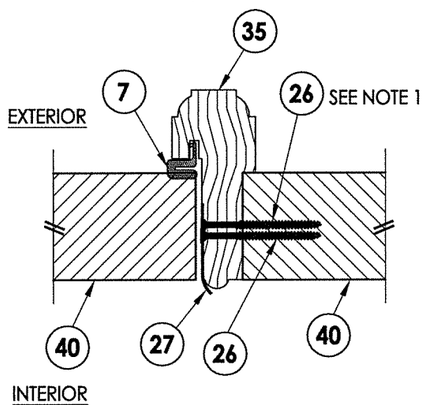


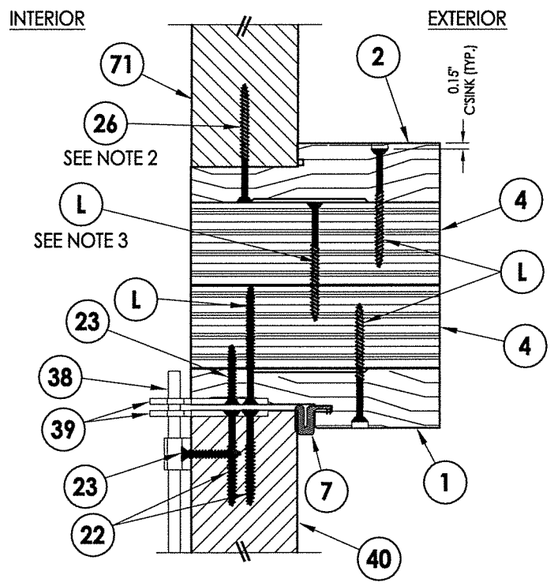
1/6 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



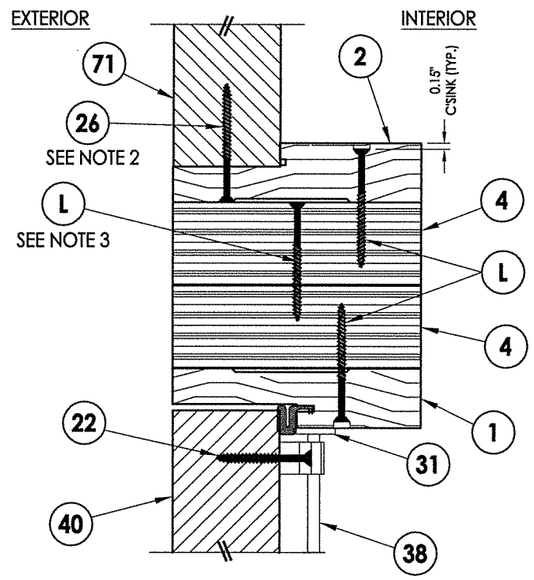
2/6 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



4/6 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)



5/6 **VERTICAL CROSS SECTION**
Inswing Shown



6/6 **VERTICAL CROSS SECTION**
Outswing Shown

NOTES:
1. Item #26 located 4" from each end & 9 more equally spaced (11 total).
2. Item #26 located 4" from each end & 1 at the center line (3 total).
3. Item #L located 24" from each end & 1 more at the center line (3 total).

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4-11-17

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FBPE C.A. No. 9813

PRODUCT: MILLWORK 360 WOOD DOOR

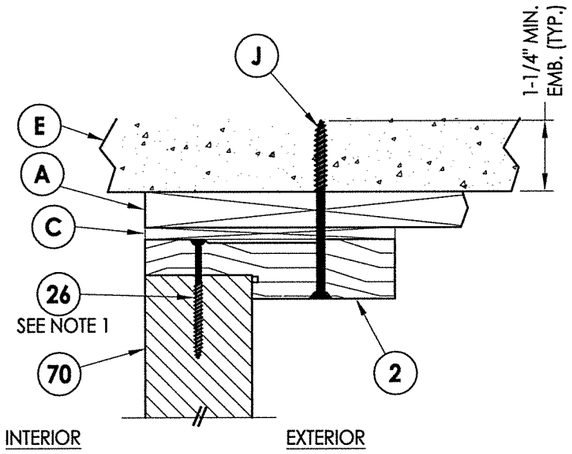
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)

NO.	DATE	BY
REVISIONS		

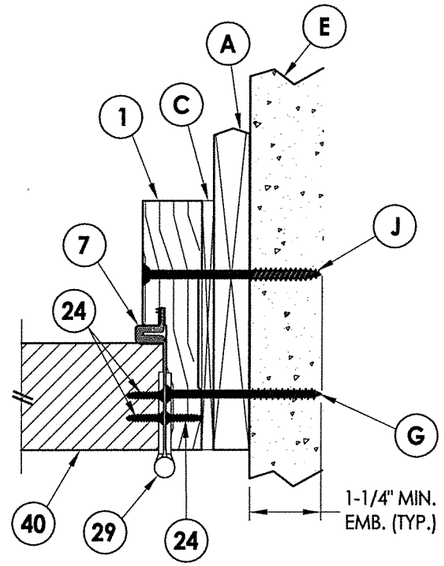
DATE: 4/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 6 OF 12

R:\Clients\Millwork 360\A - Florida Product Approvals\FL-21891 Wood Doors\C - Drawings\FL-21891 (2014)\FL-21891.9-11.dwg, 11.6

NOTES:
1. Item #26 located 4" from each end & 1 at the center line (3 total).



1/7 *VERTICAL CROSS SECTION*
Shown w/ 1X Buck
Inswing shown (Outswing similar)



2/7 *HORIZONTAL CROSS SECTION*
Shown w/ 1X Buck
Inswing shown (Outswing similar)

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4-11-17
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Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: *MILLWORK 360 WOOD DOOR*
PART OR ASSEMBLY: *HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)*

NO.	DATE	BY	REVISIONS

DATE: 4/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 7 OF 12

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1/8 **VERTICAL CROSS SECTION**
Outswing

2/8 **VERTICAL CROSS SECTION**
Inswing

3/8 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)

4-4-17

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FBPE C.A. No. 9813

PRODUCT: *MILLWORK 360 WOOD DOOR*

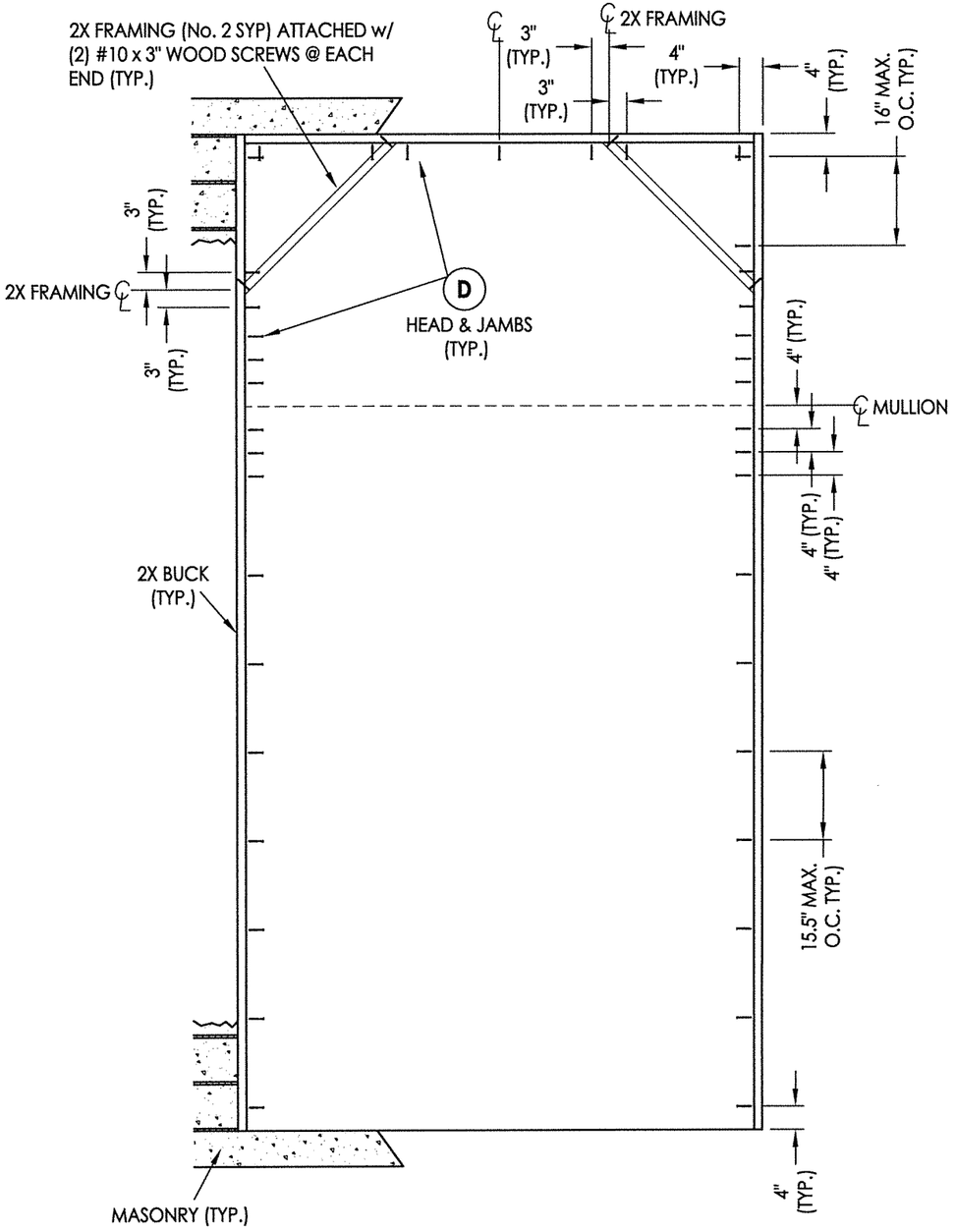
PART OR ASSEMBLY: *VERTICAL CROSS SECTIONS (THRESHOLD)*

NO.	DATE	BY

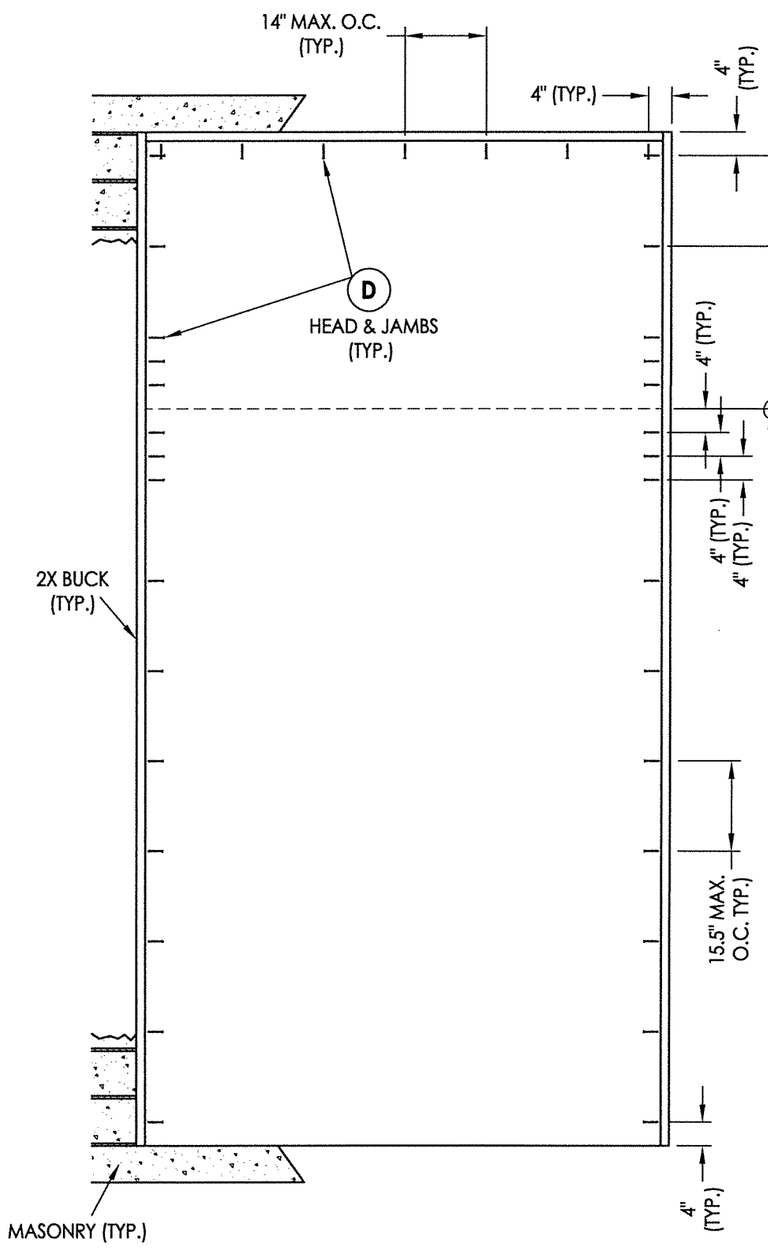
REVISIONS

DATE: 4/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 8 OF 12

R:\Clients\Millwork 360\A - Florida Product Approvals\FL-21891 Wood Doors\C - Drawings\FL-21891 (2014)\FL-21891.9-11.dwg, 11.8



2X BUCK ANCHORING
O/XX (Arch Top Transom)



2X BUCK ANCHORING
O/XX

NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH DEEP THREAD WOOD SCREWS @ SILL.

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4-11-17
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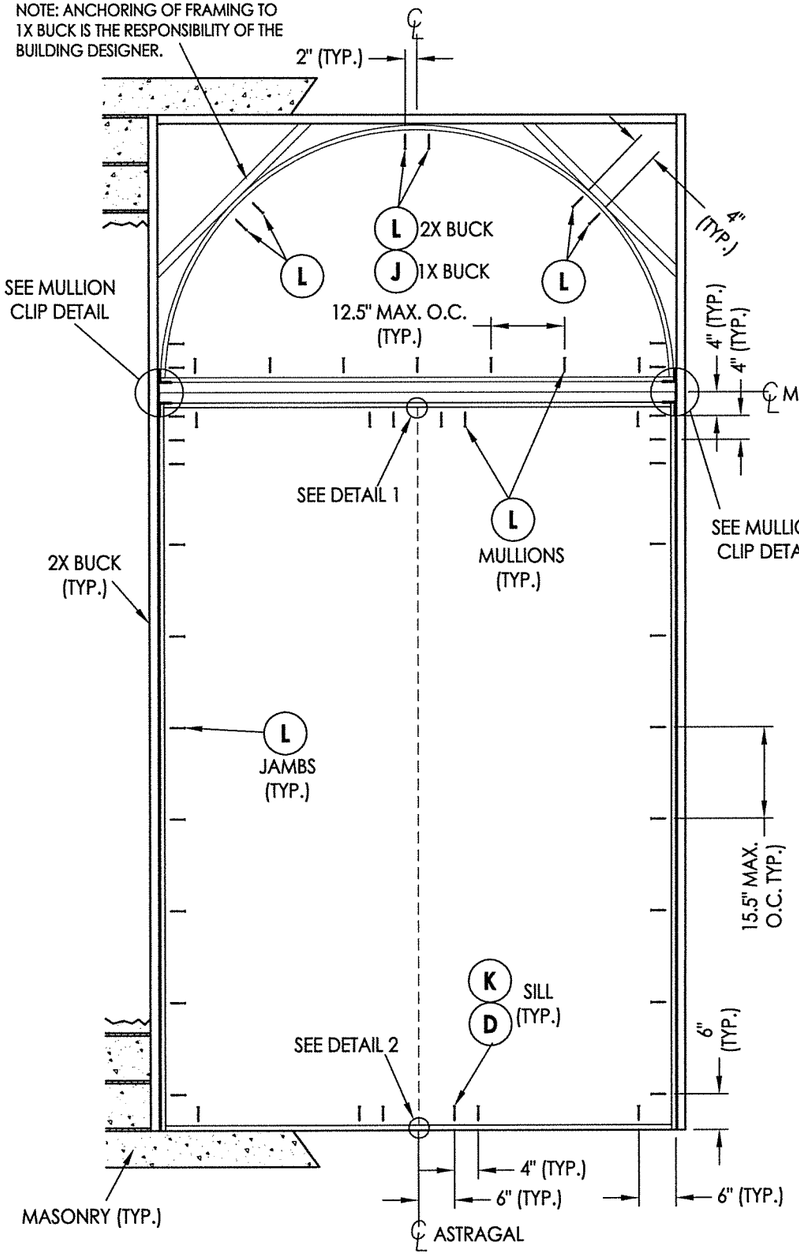
FBPE C.A. No. 9813

PRODUCT: *MILLWORK 360 WOOD DOOR*

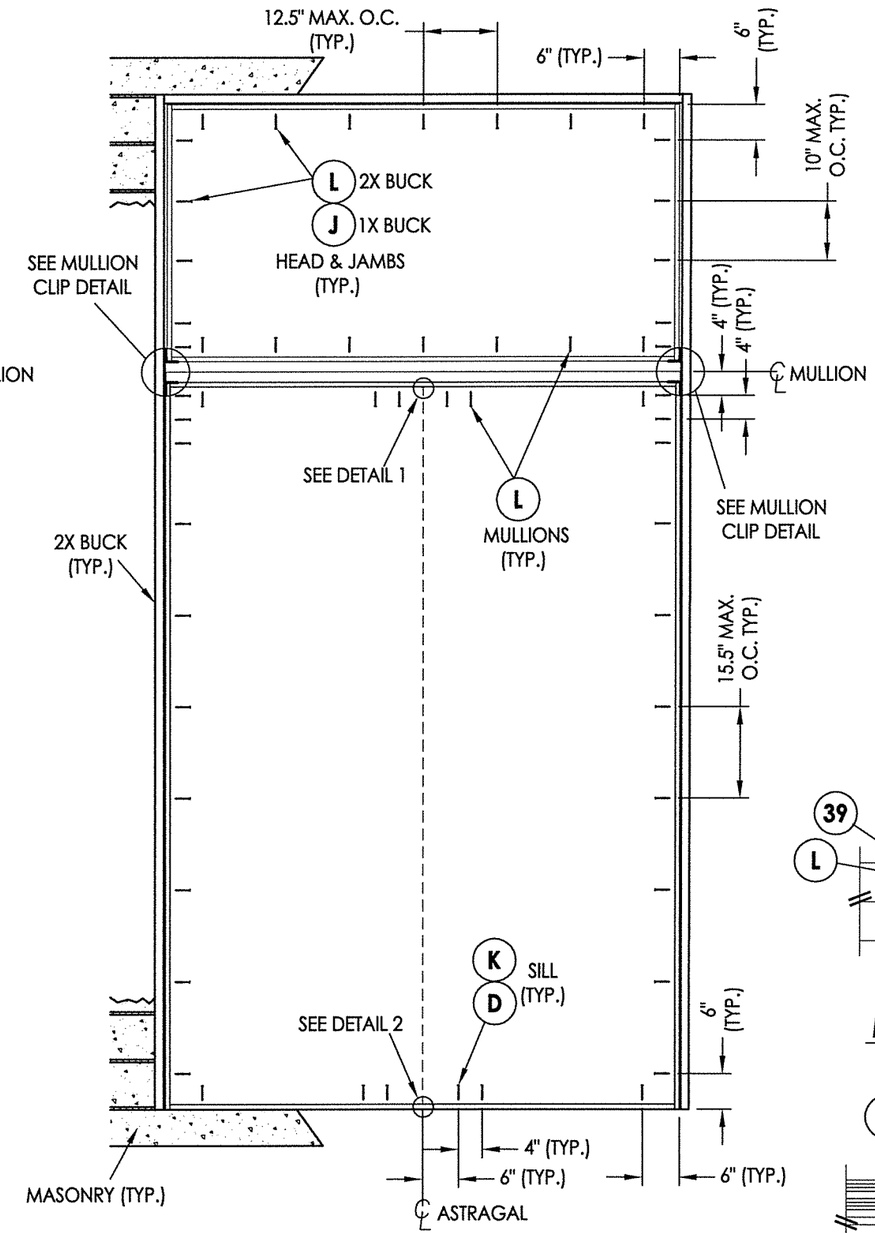
PART OR ASSEMBLY: *BUCK ANCHORING*

NO.	DATE	BY
REVISIONS		

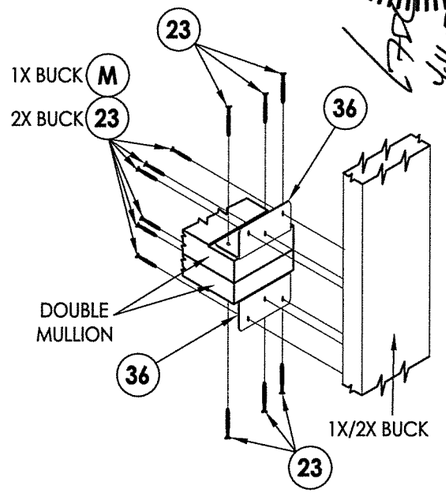
DATE: 4/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 9 OF 12



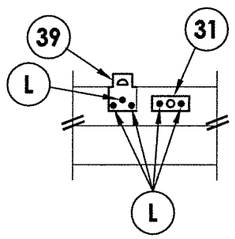
FRAME ANCHORING
O/XX (Arch Top Transom)



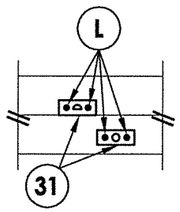
FRAME ANCHORING
O/XX



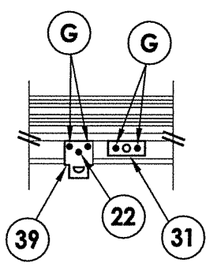
DOUBLE MULLION CLIP DETAIL



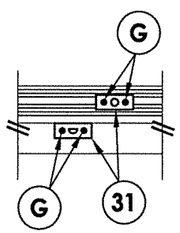
DETAIL 1
Inswing



DETAIL 1
Outswing



DETAIL 2
Inswing



DETAIL 2
Outswing

NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH DEEP THREAD WOOD SCREWS @ SILL.

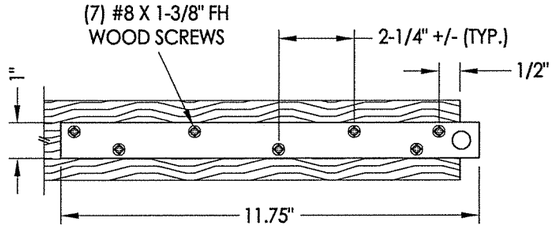
L.F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/11/17
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: MILLWORK 360 WOOD DOOR
PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS	BY

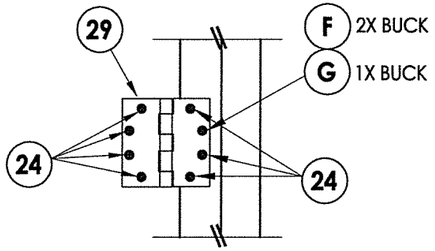
DATE: 4/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 10 OF 12

R:\Clients\Millwork 360\A - Florida Product Approvals\FL-21891 Wood Doors\C - Drawings\FL-21891 (2014)\FL-21891.11.dwg, 11.10

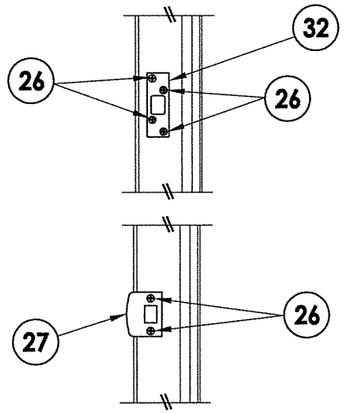


FLUSHBOLT REINFORCMENT

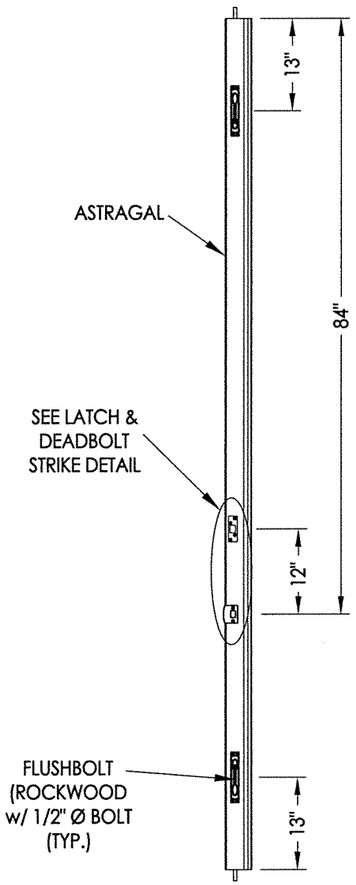
AT TOP & BOTTOM OF DOOR PANEL
(3/16" THICK STEEL)



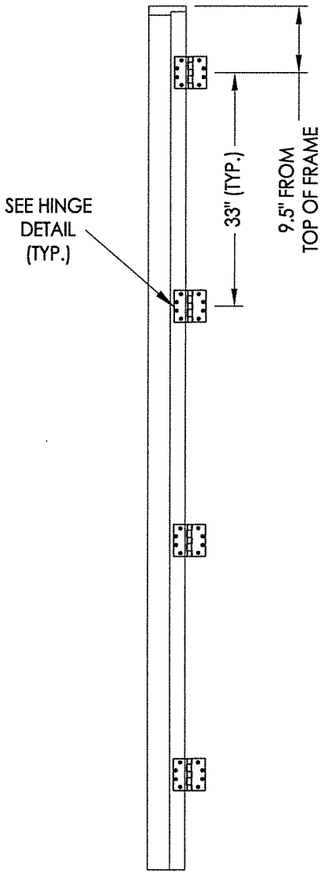
HINGE DETAIL



LATCH & DEADBOLT STRIKE DETAIL



LATCH & DEADBOLT DETAILS



HINGE JAMB

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STATE OF FLORIDA
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: MILLWORK 360 WOOD DOOR

PART OR ASSEMBLY: HARDWARE DETAILS

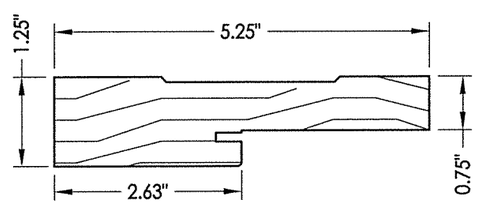
NO.	DATE	BY	REVISIONS

DATE: 4/03/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21891.11
SHEET 11 OF 12

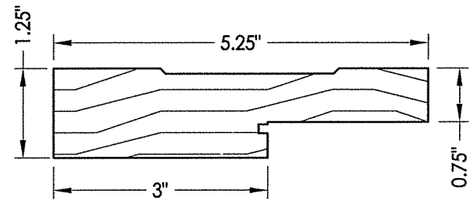
BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#12 X 2-1/2" PFH WOOD SCREW	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
K	1/4" X 1-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
1	JAMB (DOOR)	WOOD
2	JAMB (SIDELITE)	WOOD
4	MULLION	LVL
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
14	OUTSWING THRESHOLD	ALUM/WOOD/COMP
15	INSWING THRESHOLD	ALUM/WOOD/COMP
22	#8 X 1-1/4" PFH WOOD SCREW	STEEL
23	#10 X 1-1/2" PFH WOOD SCREW	STEEL
24	#12 x 1" PFH WOOD SCREW	STEEL
25	#8 x 1-3/4" PFH WOOD SCREW	STEEL
26	#8 x 2-1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
29	4.5" X 4.5" HINGE	STEEL
31	SHOOTBOLT STRIKE PLATE	STEEL
32	DEADBOLT SECURITY STRIKE PLATE	STEEL
35	ASTRAGAL	WOOD
36	MULLION ANGLE CLIP (USP ML24-TZ)	STEEL
38	SURFACE BOLT (EMTEK 8513 - 18" LONG)	STEEL
39	SURFACE BOLT STRIKE PLATE (INSWING)	STEEL
40	DOOR PANEL	WOOD
41	DOOR PANEL	WOOD
50	SIDELITE PANEL	WOOD
51	SIDELITE PANEL (DIRECT SET)	WOOD
70	TRANSOM PANEL	WOOD

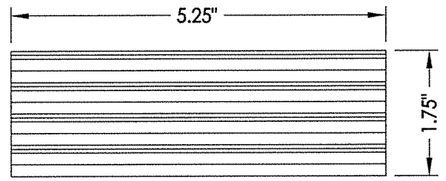
WOOD FRAME COMPONENTS: SIPO (UTILE) (G = 0.53)



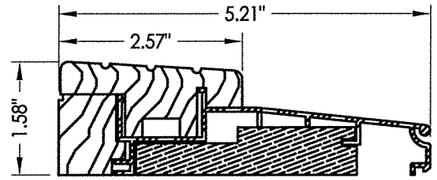
1 WOOD JAMB (DOOR)



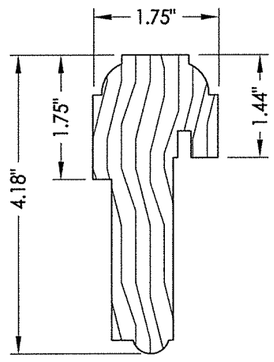
2 WOOD JAMB (SIDELITE)



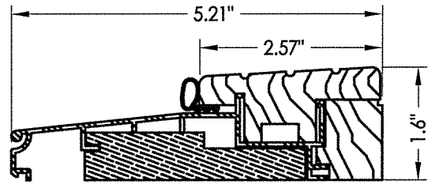
4 MULLION
VERSA-LAM® 3100 Fb-2.0E



15 INSWING THRESHOLD
WORLDWIDE



35 ASTRAGAL



14 OUTSWING THRESHOLD
WORLDWIDE

CONCRETE ANCHOR NOTES:

1. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.*
2. *Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.*
3. *Concrete anchor table:*

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

1. *Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.*

LYNDON F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

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PRODUCT: MILLWORK 360 WOOD DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY

REVISIONS

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DWG. BY: JK
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SHEET 12 OF 12